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The "AND" operator is unnecessary -- we include all search ferms by default, idetails)

Scholar All articles - Recent articles Results 1 - 100 of about 7,750 for "virtual address" and "virtual memory" and table. (1.22 seconds)

Memory coherence in shared virtual memory systems- *swarthmore.edu (PS)

K Li, P Hudak - ACM Transactions on Computer Systems (TOCS), 1989 - portal.acm.org

... single virtual address space. ... Memory Coherence in Shared Virtual Memory Systems ... Table

I. Spectrum of Solutions to the Memory Coherence Problem Page ownership ... Cited by 1404 - Related articles - Web Search - All 24 versions

Machine-independent virtual memory management for pageduniprocessor and multiprocessor architectures - *kiev.us (PDP)

R Rashid, A Tevanian Jr. M Young, D Golub, R Baron ... - IEEE Transactions on Computers, 1988 - jeeexplore.jeee.org

... A task includes a paged virtual address space and protected access to system resources

(such as processors ... TABLE I MACH VIRTUAL MEMORY INTERFACE FUNCTIONAL ... Gited by 321 - Related articles - Web Search - All 79 versions

Virtual memory mapped network interface for the SHRIMP multicomputer- *kfupm.edu.sa pon

MA Blumrich, K.L. R. Albert, C. Dubnicki, EW Felten ... - International Symposium on Computer Architecture, 1998 - portal acm.org

... consumes the same amount of virtual address space ... Table 2: Software overhead of message passing primi ... Overall, we conclude that the virtual memory mapped network ...

Oited by 468 - Related articles - Web Search - Bt. Direct - All 19 versions

Virtual memory- •gmu.edu (POF)

PJ Denning - ACM Computing Surveys (CSUR), 1970 - portal.acm.org

... As mentioned earlier, virtual memory may be used to give the ... there is no requirement

that every virtual address "represent" or ... MECHANISM -r 1 I MAP TABLE f I ...

Cited by 444 - Related articles - Web Search - All 15 versions

Ivy: A shared virtual memory system for parallel computing

K Li, J Carter, J Berinett, W Zwaenepoel - Distributed Shared Memory: Concepts and Systems, 1997 - books.google.com

... The shared virtual memory provides a virtual address space that is ... The shared virtual

memory address space is in the high ... data structure of the page table it a ... Cited by 271 - Related articles - Web Search - All 4 versions

[PDF] *Mach: A new kernel foundation for UNIX development

M Accetta, R Baron, W Bolosky, D Golub, R Rashid, ... - contract - cse.nd.edu

... process slots, file descriptor slots and page tables. ... These include a virtual address

space and a set of ... Regions of virtual memory may be marked as inheritable ...

Cired by 1069 - Related articles - View as HTML - Web Search - All 11 versions

Virtual memory primitives for user programs- *berkeley.edu (POF)

AW Appel, K Li - ACM SIGPLAN Notices, 1991 - portal.acm.org

... one virtual address; at one address the page is access. ... the same page table.

so that expensive page-table con- ... 3 Virtual memory applications ...

Olied by 243 - Related articles - Web Search - All 40 versions

[PDF] *Pin-down cache: A virtual memory management technique for zero-copy communication

H Tezuka, FO'Carroll, A Hori, Y Ishikawa - 12th Int, Parallel Processing Symposium, 1998 - gdgib.gotdns.com

... the user program to pin a user virtual memory area to ... Since the virtual address of the message buffer is mapped ... copy is further investi- gated in Table 1. In ...

Cited by 114 - Related articles - View as HTML - Web Search - All 14 versions.

[PDF] A study of replacement algorithms for virtual-storage computer

LA Belady - IEM systems journal, 1966 - users informatik uni-halle de

... For several reasons, it would be advantageous to rid the programmer of this function

by providing him with a "virtual" memory larger than his pro- gram. ...

Cited by 858 - Related articles - View as HTML - Web Search - All 5 versions

[PDF] *Virtual memory: Issues of implementation

B Jacob, T Mudge - IEEE computer, 1998 - ece.umd.edu

... location through a differ- ent virtual address could cause ... wire down a region of

virtual memory is to ... Page table entries Mapping information is organized into ...

Gited by 61 - Related articles - View as HTML - Web Search - BL Direct - All 38 versions

Generic virtual memory management for operating system kernels E Abrossimov, M Bozler, M Shapiro - Proceedings of the twelfith ACM symposium on Operating 1989 - portal acmorg

... Table 4: GMI; cache management ... is referred to as the PVM (Paged Virtual memory Manager)

and ... | Support for large, sparse segments and large virtual address spaces ...

and ... | Support for large, sparse segments and large virtual address spaces .. Cited by 117 - Related articles - Web Search - All 6 versions.

The integration of virtual memory management and interprocess communication in Accent

R Fitzgerald, RF Rashid - ACM Transactions on Computer Systems (TOCS), 1986 - portal acm org

... Virtual memory store operations cause WriteFaults ... are qualified by the process and

virtual address at which ... are AddressFaults if there is no VP Table entry for ...

Clied by 109 - Related articles - Web Search - All 4 versions

Virtual memory address translation mechanism with combined hash address table and inverted page ...

PD Hester, RO Simpson - US Patent 4,680,700, 1987 - Google Patents

... memory. The conversion or translation mechanism includes a combined table in the memory which includes a first list covering the respective virtual address of ...

memory which includes a first list covering the respective virtual address of ..

Clied by 38 - Freiated articles - Web Search - All 5 versions

Lightweight recoverable virtual memory- *ssga.edss (PDF)

M Satyanarayanan, HH Mashburn, P Kumar, DC Steere, ... - ACM Transactions on Computer Systems (TOCS), 1994 - portal acm.org

... University Recoverable virtual memory refers to regions of a virtual address

space on which transactional guarantees are offered. ...

Cited by 166 - Related articles - Web Search - Bt. Direct - All 64 versions

Virtual-memory-mapped network interfaces

MA Blumrich, C Dubnick: EW Felten, K Li, MR ... - IEEE Micro, 1995 - leeexplore,leee.org

... at the virtual-memory level, virtual-address translation hardware ... network interface

to support virtual-memory mapping in ... is the network interface page table. ...

Gited by 118 - Belefied acticles - Web Search - St. Direct - All 2 versions

The Quadrics network: High-performance clustering technology- *V\$.@dia IPDFI

F Petrini, W Feng, A Hoisie, S Coll, E ... - IEEE Micro, 2002 - ieeexplore.ieee.org

... In a conven-tional **virtual-memory** sys- tem, each user ... tion number that selects the MMU **table** set and ... mem- ory using a context value and a **virtual address**. ...

Cited by 314 - Frelated articles - Web Search - Bt, Direct - All 66 versions

... evaluation of two home-based lazy release consistency protocols for shared virtual memory systems: **shapm.edu.sa (PDF) Y Zhou, L Iffode, K LI - usenix.org

... supported by other software shared virtual memory systems, such as ... In our

implementations, all virtual address space can be ... in the post switch table and calls ...

Cited by 222 - Related articles - Web Search - Bt, Direct - All 17 versions

Design and implementation of virtual memory-mapped communication on myrinet- *2932.edu (PDF)

C Dubnicki, A Bilas, K Li, J Philbin - 11 th International Parallel Processing Symposium (IPPS'97), 1997 - ieeexplore.ieee.org

... data from sender's local virtual memory to a ... A request consists of a local virtual

address specifying send ... The incoming page table (one per interface) has ... Cited by 88 - Released articles - Web Search - All 21 versions.

[PDF] *Stability in a persistent store based on a large virtual memory

J Rosenberg, F Heriskens, AL Brown, R Momson, D ... - Proceedings of the International Workshop on Architectural ... - doc.st-and.ac.uk

... maintenance of all of the virtual memory tables, free space ... recursively on the page tables themselves, considerably ... This allows the virtual address space to be ...

Ciled by 64 - Religied adicies - View as HTML - Web Search - All 4 versions

Virtual memory address translation mechanism with controlled data persistence

A Chang, J Cooke, MF Margen, G Badin - US Patent 4 638 426, 1987 - Google Patents

... the dual functions of converting virtual memory addresses generated ... which con-verts

the virtual address into an ... special set of translation tables referred to ...

Cited by 49 - Related articles - Web Search - All 9 versions

Shared virtual address translation unit for a multiprocessor system

Y Fukunaga, T Bandoh, H Matsumoto, R Hiraoka, J ... - US Patent 4.481,573, 1984 - Google Patents

... and if it is present SHARED VIRTUAL ADDRESS TRANSLATION the memory access to the

translation table for the ... present invention relates to a virtual memory 5 tion ... Gited by 51 - Related articles - Web Search - All 3 versions

Plural virtual address space processing system

K Inoue, H Nonogaki, T Urakawa, K Shimizu - US Patent 4,145,738, 1979 - Google Patents

... is registered in common to the **virtual address** spaces though ... hanced efficiency of use of the **table** TLB ... systems usually adopt the so-called **virtual memory** system ...

Orted by 43 - Related articles - Web Search - All 2 versions

[BOOK] Koan: a shared virtual memory for the ipsc/2 hypercube- *hipm.edu.sa [PDF]

Z Lahjomri, T Priol - 1991 - Springer

... knowledge for every page of the virtual address space ... resulting matrix are stored in the shared virtual memory. Table 4 summarized the results we obtained with ...

Oited by 63 - Related articles - Web Search - All 12 versions

A survey of recoverable distributed shared virtual memory systems- *kfusum.edu.sa [Por]

C Morin, I Puaut - IEEE Transactions on parallel and Distributed Systems, 1997 - leeexplore, leee, org

... in [21], [5] allows processes to share a unique paged virtual address space in ... per-

formance when the shared data size is less than a virtual memory page (the ...

Otted by 81 - Related artistes - Web Search - Bl., Direct - All 12 versione.

Architectural support for translation table management in large address space machines - smormain add profit

J Huck, J Havs - ACM SIGARCH Computer Architecture News, 1993 - portal acm.org

... mapping is a single translation from a virtual address, local to ... Virtual memory

translation is often specified by the ... in terms of a memory-based table with the ...

Clied by 109 - Related anicles - Web Search - Bl. Direct - All 12 yearsons

[PDF] * Improving release-consistent shared virtual memory using automatic update

L. Iftode, C. Dubnicki, EW Felten, K.Li. - The 2nd IEEE Symposium on High-Performance Computer ..., 1996 - Citeseer

... Virtual address space ... The common approach to the rst problem is to use the virtual memory translation hardware to ... Table 1: System Parameters Used in Simulation ...

Cred by 141 - Related enjoiss - View as HTML - Web Search - All 18 versions

AVM: Application-level virtual memory- *psu.edu [PDF]

DR Engler, SK Gupta, MF Kaashoek - Hot Topics in Operating Systems, 1995. (HotOS-V), Proceedings ..., 1995 - ieeexplore, ieee.org ... base cost of looking up a virtual address in the ... due to the overhead of parsing the

page-table. ... Figure 1: Virtual memory benchmarks; times are in micro-seconds ...

Chad by 46 - Fisieted articles - Web Search - All 16 versions

Virtual-address caches, Part 1; problems and solutions inuniprocessors M Cekleov, M Dubois - IEEE Micro, 1997 - ieeexplore.ieee.org

... Unit of memory allocation in a virtual memory sys- tem Page table: Dictionary of ...

and yielding the physical page number Virtual address: Processor-computed ...

Cited by 48 - Related articles - Web Search - St. Direct - All 5 yeasons

Dynamic improvement of locality in virtual memory systems

JL Baier, GR Sager - IEEE Transactions on Software Engineering, 1976 - leeexplore leee.org

... Index Terrns-Virtual memory, paging, locality, replacement algo- ... More

specifically, if a is the virtual address referenced at time ...

Cited by 47 - Belated articles - Web Search - All 5 versions

[PDF] *Virtual memory in contemporary microprocessors

8 Jacob, T Mudge - IEEE Micro, 1998 - Citeseer

... their support for some core virtual-memory functions. ... memory structure that caches

only page table entries (PTEs ... the system can translate a virtual address to a ... Gried by \$5 - Related articles - View as HTML - Web Search - BL Direct - All 45 versions.

Static grouping of small objects to enhance performance of a paged virtual memory

JW Stamos - ACM Transactions on Computer Systems (TOCS), 1984 - portal.acm.org

... The virtual memory simulator was a two-level demand-paged ... the field offset, and this table to calculate ... object, since at most one virtual address was assigned ...

Orted by 119 - Related enticies - Web Search

Coherency for multiprocessor virtual address caches

JR Goodman - Proceedings of the second international conference on ..., 1987 - portal acm.org

... If the virtual address is the same as that found ... the choice of page size for virtual memory, particularly appropriate ... is the size of the page table, which can ...

Glied by 76 - Related articles - Web Search - All 4 versions

(PDF) •Microkernels meet recursive virtual machines

B Ford, M Hibler, J Lepreau, P Tuliman, G Back, S ... - ACM SIGOPS Operating Systems Review, 1996 - eprints.kfupm.edu.sa

... memory manager can be run within the process manager to provide virtual memory to an ... type create(objp) Create a new object of type type at virtual address objp ...

Cliad by 186 - Related articles - View as HTML - Web Search - Bt. Direct - All 15 versions

Virtual memory management for database systems

IL Traiger - ACM SIGOPS Operating Systems Review, 1982 - portal.acm.org

... The operating system has its own mechanisms for buffering virtual memory pages into

real memory. Page map tables are maintained by the operating system so that ...

Cited by 81 - Related articles - Web Search - All 2 versions

Virtual memory addressing device

JA Anderson, RV Van Gelder, LF Yazolino, JE Braun - US Patent 4,376,297, 1983 - Google Patents

... for translating a logical or virtual address into a ... the class adapted for 30 virtual

memory operation and ... processor for storing a directory table origin value ...

Gited by 29 - Related articles - Web Search - All 2 versions

Tempest and Typhoon: User-level shared memory- *wisc.edu [PDF]

SK Reinhardt, JR Larus, DA Wood - Proceedings of the 21ST annual international symposium on ..., 1994 - portal.acm.org

... Virtual memory systems typically provide this form of access ... TABLE 1. Operations

on tagged memory blocks ... maps the physical page to the desired virtual address. ...

Cited by 401 - Related articles - Web Search - Bt. Direct - All 33 versions

Software support for virtual memory-mapped communication- *kfupm.edu.sa (PDF)

C Dubnicki, L Iftode, EW Felten, K Li - Parallel Processing Symposium, 1995... Proceedings of IPPS'95..., 1995 - ieeexplore.ieee.org ... Essentially, virtual memory-mapped communication is a mechanism for protected data

transfer from the sender's virtual address space to the receiver's ...

Oited by 74 - Related articles - Web Search - All 17 versions

[PDF] *The performance of message-passing using restricted virtual memory remapping

SY Tzou, DP Anderson - Software: Practice and Experience, 1991 - cs.ubc.ca

... for remapping, and a page's virtual address does not ... Virtual memory remapping is a class of techniques for ... on most machines, updating a page table entry is ...

Cited by 48 - Related articles - View as HTML - Web Search - All 9 versions.

WSCLOCK-a simple and effective algorithm for virtual memory management- **!ka.de (POF)

FW Carr, JL Hennessy - Proceedings of the eighth ACM symposium on Operating systems 1981 - portal acm.org

... A task is modeled by a virtual address space P={ Pi ... system where the total of all

task virtual memory is many ... of main memory, minimization of page tables is an ...

Otted by 64 - Reistad articles - Web Search - Ali 17 versions

The duality of memory and communication in the implementation of a multiprocessor operating system- *#forento.ca [PDF]

M Young, A Tevanian, R Rashid, D Gotub, J Eppinger - Proceedings of the eleventh ACM Symposium on Operating ..., 1987 - portal acm org ... Table 3-2: Port Operations ... Virtual Memory Management A task's address space consists

of an ... memory regions anywhere within the virtual address space defined by ...

Gited by 242 - Related articles - Web Search - Atl 62 versions

CHILDR. MC Chen. RC Chang - Proceedings of the 1st USENIX conference on Operating 1994 - portal acm.org ... integer, or as complex as the virtual memory page structure ... of each commandare listed

in Table 1, Each ... Find 00001111 op1 op2 ag Given virtual address op2 . nd ...

Cited by 55 - Religied articles - Web Search - All 6 versions

[PDF] *LogTM: Log-based transactional memory

KE Moore, J Bobba, MJ Morayan, MD Hill, DA Wood - Proceedings of the 12th International Symposium on High- 2006 - hpcaconf.org ... for each thread's stack, page table entries and ... thread (a) have new values in (virtual)

memory, (b) are ... isolated, and (c) have their (virtual) address and pre ... Clied by 203 - Related articles - View as HTML - Web Search - All 6 versions

IPDFI *Implementing a large virtual memory in a distributed computing system

DA Abramson, Jl., Keedy - Proceedings of the 18th Hawaii International Conference on ..., 1985 - csse.monash.edu.au

... architecture, which interprets a unique virtual address as a four ... In effect the virtual memory is divided into- "address ... space has its own separate page table, ...

Chad by 35 - Related articles - Web Search

The Wisconsin Wind Tunnel: virtual prototyping of parallel computers- * figure scie.co [PDF]

SK Reinhardt, MD Hill, JR Larus, AR Lebeck, JC ... - ACM SIGMETRICS Performance Evaluation Review, 1993 - portal.acm.org

... The first tech- nique is fine-grained shared virtual memory, which ... nx% M virtual Address Specs space I stack 1) 4 v Segmem Slacn Private Data { Segment VH ...

Clied by 313 - Related articles - Web Search - Bl., Direct - All 15 yersions

Method to control I/O accesses in a multi-tasking virtual memory virtual machine type data ...

KE Duvall, AD Hooten - US Patent 4,742,447, 1988 - Google Patents

... store one page of data, file table entry contains ... a buffer capacity of the virtual

memory is 1 ... ar- rangements for generating the virtual address, depend- ing ...

Gifed by 47 - Related articles - Web Search - All 3 versions

Virtual Memory System

US Patent 3,781,808, 1973 - Google Patents

... optionally be used to extend the virtual address to provide ... would have over four

billion bytes of virtual memory. ... as an index to an entry in the segment table. ...

Gited by 34 - Related articles - Web Search - All 2 versions

Mate: A tiny virtual machine for sensor networks- *harvard.edu IPDR

P Levis, D Culler - ACM SIGOPS Operating Systems Review, 2002 - portal acm.org

... Communication | Radio RFM TRi000 Rate (Kbps) | 10 | 10 | i0 | i0 | 10/40 OOK Modulation type OOK/ASK Table 1: The family of Berkeley TinyOS motes ...

Cited by \$15 - Related enticles - Web Search - Bt. Direct - All 58 versions

Software emulation of bank-switched memory using a virtual DOS monitor and paged memory management

GA Stimap, WC Crosswy, SB Preston, JS Flannigan - US Patent 4,926,322, 1990 - Google Patents

... ENTRY (PAGE TABLE DIRECTORY BASE) PAGE TABLE DIRECTORY (1024 ENTRIES) OFFSET PG.TBLENTRY 4GB PHYSICAL ADDRESS 4KB PAGE PAGE TABLES * PHYSICAL (1024 ENTRIES ...

Cited by 76 - Related articles - Web Search - All 3 versions

Recoverable distributed shared virtual memory

KL Wu, WK Fuchs - IEEE Transactions on Computers, 1990 - leeexplore, leee, org

... can be integrated with the shared virtual memory management protocol ... keeps its own

local page table, indicating its ... each page in the shared virtual address space ...

Clied by 123 - Related artistes - Web Search - All 5 versions

Computer system employing virtual memory

JE Smith, GE Dermer, MA Goldsmith - US Patent 4,774,659, 1988 - Google Patents

... a translation descriptor from the **table** in mem ... ary memory corresponding to the **virtual** memory page 55 ory ... containing the referenced **virtual address** and transfers ...

Cited by 41 - Related articles - Web Search - Ali 2 versions

Garbage collection in a large LISP system- *ucsb.edu (POF)

DA Moon - Proceedings of the 1984 ACM Symposium on LISP and functional ..., 1984 - portal acm.org ... wmt for the inevitable exhaustion of virtual address space (at ... in its address by

dividing virtual memory into equal ... up the address of the quantum in a table. ...

Cited by 277 - Related articles - Web Search - All 5 versions

[PDF] *Microsoft Windows Internals: Microsoft Windows Server 2003, Windows XP, and Windows 2000 ME Russinovich, DA Solomon, DA Solomon - 2005 - ulb.tu-darmstadt.de

... 444 Page Files 444 Virtual Address Descriptors 448 ... 658 Cache Virtual Memory Management

660 Cache Size ... 667 Page 10. Table of Contents xv Cache Data Structures ... Clied by 49 - Fielated articles - View as HTML - Web Search - All 4 yersions

[PDF] «Virtual memory architecture in SunOS

RA Gingell, JP Moran, WA Shannon - Proceedings of the Summer 1987 Usenix Technical Conference - opensolaris.org

... was the introduction of a virtual address cache in ... on its own to synchronize the

"virtual memory cache" it ... Table 1 sum- marizes our refined interface ...

Cliad by 85 - Related articles - View as HTML - Web Search - All 64 versions

Method for managing virtual memory to separate active and stable memory blocks

DH Bartley, TJ McEntee, DW Oxley, SM Thatte - US Patent 4,660,130, 1987 - Google Patents ... of the beginning of the available virtual memory space ... they are located in the virtual

address space beginning ... Figures ASSOCIATIVE LOOK-UP TABLE 1XXXXXXX rfjtil ...

Clied by 40 - Freiated articles - Web Search - All 5 versions

[PDF] *Page Table Structures for Fine Grain Virtual Memory

J Liedtke - 1994 - Citeseer

... Virtual Memory ... freely specifyable contiguous parts of the virtual address space.

Since each segment is dened by a segment-table entry containing base address ...

Clied by 19 - Related enticles - View as HTML - Web Search - All 7 versions

Cm*: A modular, multi-microprocessor

RJ Swan, SH Fuller, DP Siewiorek - Proceedings of the June 13-16, 1977, national computer ..., 1977 - portal acm.org

... All processors share access to a single virtual memory address space. ... Cm* has

a 2 28 byte segmented virtual address space. ... Relocation Table ...

Cited by 197 - Related articles - Web Search - All 2 versions

Efficient software-based fault isolation- *kfupm.edu.sa (PDF)

R Wahbe, S Lucco, TE Anderson, SL Graham - Proceedings of the fourteenth ACM symposium on Operating ..., 1994 - portal acm.org ... Hard- ware page tables prevent the code in one address space from corrupting the

contents of another. Unfortunately, there is a high performance cost ...

<u> Cited by 697 - Helated articles - Web Search - BL Direct - All 10 versions</u>

Operating system support for database management- *ucsb.edu (PDF)

M Stonebraker - Communications of the ACM, 1981 - portal.acm.org

... address space. ... 6.1 Large Files Any virtual memory scheme must handle files which are large objects ... file will have an overhead of 100K bytes for the page table. ...

Cited by 405 - Related articles - Web Search - All 37 versions

SoftFLASH: analyzing the performance of clustered distributed virtual shared memory- *kfupm.edu.sa (PDF)

A Erlichson, N Nuckolls, G Chesson, J Hennessy - ACM SIGOPS Operating Systems Review, 1996 - portal.acm.org

... the page into the user's virtual address space ... must take faults, manipulate the virtual

memory structures and ... Table 2 contains data measured from test programs ...

Cited by 109 - Related anicles - Web Search - Bt. Direct - All 17 yearuns

DAISY: Dynamic compilation for 100% architectural compatibility- *psii.edu (PDF)

K Ebcioliju, ER Altman - portal.acm.org
... ma-chine. (= the low portion of VLIW virtual memory) there is ... tecture physical memory.

... ma- chine, (= the low portion of VLIW virtual memory) there is ... tecture physical memor is at VLIW virtual address nx N ... of memory as a hash table of translated ...

Gited by 317 - Related articles - Web Search - Bt. Direct - All 27 versions

Using shared virtual memory for parallel join processing- *pse.edu (PDF)

A Shatdal, JF Naughton - ACM SIGMOD Record, 1993 - portal.acm.org

... hash table overflow) but are relatively insensitive to ... Shared virtual memory [LH89, CBZ91] provides a sin ... gle virtual address space shared by all the processors ...

Oracle by 38 - Related articles - Web Search - BL Direct - All 10 versions

User scheduled direct memory access using virtual addresses

RW Herrell, TP Morrissey - US Patent 5,301,287, 1994 - Google Patents

... host system, and each shadow page table is updated by ... a type is said to have virtual memory if the ... must therefore take place from the virtual address space of ...

Clied by 44 - Related articles - Web Search - All 4 versions

Design and implementation of power-aware virtual memory- *@@@ix.org | PDF1

H Huang, P Pillai, KG Shin - Ann Arbor - usenix.org

... used repeated page faults and page table scans to ... on modern operating systems, where virtual memory (VM) is ... be aware of their own virtual address spaces, and ...

Cited by 64 - Related articles - Web Search - All 15 versions

A recursive virtual machine architecture

HC Lauer, D Wyeth - ... of the workshop on virtual computer systems table of ..., 1973 - portal.acm.org

... virtual address. Thus, processes at all levels run nearly as fast ... The latter table

can also be regarded as a segment table! thus the ... virtual memory processes. ...

<u> Cited by 23 - Related enticles - Web Search</u>

Method and apparatus for virtual memory mapping and transaction management in an object-oriented ...

Dt. Weinreb, SJ Haradhvala - US Patent App. 10/944,444, 2004 - Google Patents

... 18 PERSISTENT RELOCATION VIRTUAL ADDRESS 919 , MAP ENTRY (PRME ... ASSIGNMENTS RELOCATE MAP TO VIRTUAL MEMORY FURTHER USE ... IN THE SERVER'S OWNERSHIP TABLE NOT FOUND ...

Oited by 76 - Related articles - Web Search - All 4 versions

Optional virtual memory system

KJ Thurber, JC Strauss - US Patent 4,128,875, 1978 - Google Patents

... JSEGMENT TABLE _L PPOINTER ... OPTIONAL VIRTUAL MEMORY SYSTEM ... Real, based and virtual

addressing structures have 5 ther a real, based or virtual address structure. ...

Orted by 28 - Pelated articles - Web Search - All 2 versions

The impact of operating system structure on memory system performance- *pss.edu (**D#)

JB Chen, BN Bershad - ACM SIGOPS Operating Systems Review, 1993 - portal.acm.org

... A TLB miss on a user virtual address (iYTLB ... due to the simulator's model of the virtual memory system's ... strategy, similar to the one described in Table 2-1 ...

Oited by 192 - Related anticles - Web Search - Bl. Direct - All 27 versions

NINEMALLINE LINESEEMENSKY LLENGERSKIEL WELKENSY LIIKELINESKES

Hybrid hardware/software method and apparatus for virtual memory address translation using primary ... DV James - US Patent 4,774,653, 1988 - Google Patents

... to permit user programs to execute code and fetch data from virtual memory addresses ...

Such a hardware table is called a Virtual Address Translation Table ...

Clied by 16 - Related articles - Web Search - All 2 versions

Application-controlled physical memory using external page-cache management- *unomaha.edu (PDF)

K Harly, DR Cheriton - portal.acm.org

... the kernel virtual memory system provides a page frame cache for the application

to manage, rather than a conventional transparent virtual address space that ...

Cited by 177 - Related articles - Web Search - Bl., Direct - All 35 versions

Modularization and hierarchy in a family of operating systems

AN Habermann, L. Flon, L. Cooprider - Communications of the ACM, 1976 - portal.acm.org ... A virtual address of the form (w, d) indicates the wth WS seg- ment ... In systems with

more standard virtual memory facilities, a segment table is associated ...

Ored by 142 - Related articles - Web Search - All 5 versions

DDM-a cache-only memory architecture- *polx.edu (FDF)

E Hagersten, A Landin, S Haridi - Computer, 1992 - jeeexplore.jeee.org

... protocol is called an item. On a memory reference, a virtual address is translated into an item identifier. The item identifier space ...

Ored by 276 - Related articles - Web Search - All 24 versions

Virtual memory management in Chorus

V Abrossimov, M Rozier, M Gien - Workshop on Progress in Distributed Systems and Distributed ... - Springer

... its capability or by a virtual address in the ... Table 4 describes the operations that a mapper ... to implement a distributed virtual memory consistency maintainance ...

Clied by 31 - Related articles - Web Search - All 5 versions

[CITATION] MONADS-PC: A capability based workstation to support software engineering

J Rosenberg, DA Abramson - Proc. of the 18th Hawaii International Conference on System 1985

Cited by 79 - Related articles - Web Search

[PDF] *The Spring virtual memory system

YA Khalidi, MN Nelson - 1993 - eprints.kfupm.edu.sa

... to lock in physical memory specific virtual address ranges of ... between a pager and a virtual memory manager. ... Table 1 summaries the differences between a MACH ...

Cited by 53 - Related articles - View as HTML - Web Search - All 27 versions

Cache memory system employing virtual address primary instruction and data caches and physical ...

GS Taylor, PM Farmweld, TP Layman, HX Ngo, AW ... - US Patent 5.542.062, 1996 - Google Patents ... Two of the most important are virtual address synonyms and ... Virtual memory is usually implemented by page tables which ... the format of a page table entry should ...

Cited by 28 - Related adicies - Web Search - All 2 versions

Compile-time program restructuring in multiprogrammed virtual memory systems

S.I Hartley - IEEE Transactions on Software Engineering, 1988 - doi leeecomputersociety org

... virtual memory sys- tem, parts of the linear virtual address space of ... in order to

maximize system throughput, the virtual memory management system ... See Table II ...

Chad by 29 - Related articles - Web Search - All 9 versions

I Schoinas, B Faisafi, AR Lebeck, SK Reinhardt, JR ... - ACM SIGPLAN Notices, 1994 - portal.acm.org ... 1Location of action depends on protocol state. Table 1: Taxonomy of shared-memory

systems. Fine-grain access control can be implemented in many ways. ...

Clied by 267 - Related articles - Web Search - Bt. Direct - All 24 versions

TENEX, a paged time sharing system for the PDP-10

DG Bobrow, JD Burchfiel, DL Murphy, RS Temlinson - Communications of the ACM, 1972 - portal arm.org ... the pages in core memory in a "core status" table. ... virtual memory are specified by

the virtual memory map of ... in that position in the virtual address space, and ...

Gited by 142 - Related articles - Web Search - All 6 versions

Tools for the development of application-specific virtual memory management- *\$\$4.4344 [908]

K Krueger, D Loftesness, A Vahdat, T Anderson - ACM Sigolan Notices, 1993 - portal.acm.org

... to t,he application's pager with the fault- ing virtual address. ... general-purpose virtual memory system. ... ad- dress map is simi1a.r to a kaditional page table. ...

Cited by 66 - Related articles - Web Search - Bt. Direct - All 9 versions

Virtual address translator utilizing interrupt level code

RC De Ward, DG Kaminski, MP Fedde - US Patent 4,241,401, 1980 - Google Patents ... Most practical virtual memory data processing systems utilize a Virtual Address

Translator (VAT), often called a Directory Look-Aside Table (DLAT). ...

Oited by 21 - Related articles - Web Search - All 3 versions

Xen and the art of virtualization- *leitlorg :FOR

P Berham, 8 Dragovic, K Fraser, S Hand, T Harris, ... - ACM SIGOPS Operating Systems Review, 2003 - portal acm.org ... and the MMU-visible 'shadow' page table. This greatly increases the cost of certain

quest OS operations, such as creat-ing new virtual address spaces, and ...

Cited by 1322 - Related articles - Web Search - Bt. Direct - All 122 versions

Virtual memory on a narrow machine for an object-oriented language

T Kashler - portal.acm.org

... word is not wide enough to hold a virtual address is the ... e field in object A. The object table contains 20 ... be no worse than in a non-virtual memory system for ...

Cred by 46 - Related articles - Web Search - All 4 yersions

Rooms: the use of multiple virtual workspaces to reduce space contention in a window-based graphical ...

DA Henderson Jr. SK Card - ACM Transactions on Graphics, 1986 - portal.acm.org

... references, outlines, and notes can be spread on the table in a ... In a virtual- memory

operating system, programs are run in a large, virtual-address space. ...

Cited by 401 - Related articles - Web Search - All 5 versions

Virtual address to physical address translation cache that supports multiple page sizes

YA Khalidi, GR Anderson, SA Chessin, Si Kong, CE ... · US Patent 5.479,627, 1995 · Google Patents

... Typically, the virtual memory operating system will provide a big software translation

table (BST) 280 ... contains every translation from virtual address space to ...

Cifed by 46 - Related articles - Web Search - All 4 versions

An in-cache address translation mechanism- *wisc.edu [PDF]

DA Wood, SJ Eggers, G Gibson, MD Hill, JM ... - portal.acm.org

... Virtual memory allows program size to be independent of the ... is maintained in a structure

called a page table. A virtual address is used to index into the table ...

Orted by 72 - Related articles - Web Search - All 6 versions

Virtual memory cache for use in multi-processing systems

SR Dashieli, BA Prasad, RE Rider, JA Steffen - US Patent 4,843,542, 1989 - Google Patents

... Then, for every virtual address tained near the associated processor ... ory If not>

it must be fetched from virtual memory. ... as the out- convers'on table, and to ...

Orted by 64 - Related articles - Web Search - All 3 versions

Virtual memory management method and apparatus utilizing separate and independent segmentation and ...

JH Crawford PS Ries - US Patent 5.321 836, 1994 - Gnoble Patents

... 14, 1994 [54] VIRTUAL MEMORY MANAGEMENT METHOD AND APPARATUS UTILIZING SEPARATE

AND ... Segmentation registers and an associated segmentation table in main memory ...

Oited by 26 - Related articles - Web Search - All 2 versions

An implementation and analysis of the virtual interface architecture- *kfupm.edu.sa pop

P Buonadonna, A Geweke, D Culler - Proceedings of the 1998 ACM/IEEE conference on ..., 1998 - portal.acm.org ... Virtual Memory-Mapped Communication (VMMC) [9] is a model for ... Table 2: LogP Parameters

and measured results, ... the VI NIC into the process's virtual address space ...

Cited by 159 - Related articles - Web Search - All 13 versions

An efficient, incremental, automatic garbage collector- *pss.edu (PDF)

LP Deutsch, DG Bobrow - Communications, 1976 - portal.acm.org

... sweep of the entire virtual address space, checking ... own transaction queue and count

tables (perhaps both ... Garbage-Col- lector for Virtual-Memory Computer Systems ...

Cited by 215 - Related articles - Web Search - All 5 versions

Virtual address to physical address translation using page tables in virtual memory

RE Stewart, TE Leonard, ST Lee - US Patent 5,239.635, 1993 - Google Patents

... Since consecutive pages of the page table in virtual memory reside in consecutive page frames in physical memory, a virtual address in the page tables can be ...

Gited by 10 - Related articles - Web Search - Ali 2 versions

[PDF] Shared virtual memory: Progress and challenges

L litode, JP Singh - Proceedings of the IEEE, 1999 - Citeseer

... SVM protocol provides a coherent shared virtual address space at ... using the local

page table for access ... the performance of a shared virtual memory implementation ...

Oted by 74 - Related articles - View as HTML - Web Search - BL Direct - All 18 versions

Encrypting virtual memory

N Provos - Proceedings of the Ninth USENIX Security Symposium, 2000 - usenix.org

... the physical pages associated with a **virtual address** range into ... s. OpenBSD uses the UVM [7] **virtual memory** system. ... magnification factors are shown in **Table 1** ...

Cited by 55 - Related articles - Cached - Web Search - All 79 versions

Scalability, fidelity, and containment in the potentian virtual honeyfarm- *caids.org [PDF]

M Vrable, J Ma, J Chen, D Moore, E Vandekleft, AC ... - ACM SIGOPS Operating Systems Review, 2005 - portal.acm.org

... and protection; D.4.2 [Oper- ating Systems]: Storage Management—Virtual memory; C.2.3 ... flow cache, packets are checked against a history table that maintains ...

C.2.3 ... flow cache, packets are checked against a history table that maintains .
Ched by 110 - Related articles - Web Search - Bi. Direct - All 30 versions

Organization and performance of a two-level virtual-real cache hierarchy- *202.38.78.74 [PDF] WH Wang, JL Baer, HM Levy - portal acm.org

... Keywords: Caches, Virtual Memory, Multiprocessors, Mem- ory Hierarchy, Cache ... natural

place to put that table is at ... in the V-cache, the virtual address is trans ...

Chied by 75 - Fieleted articles - Web Search - All 13 versions

IBM System/38 support for capability-based addressing

ME Houdek, FG Soltis, RL Holfman - Proceedings of the 8th annual symposium on Computer ..., 1981 - portal acm.org

... Translating a large virtual address, IBM System/38 Technical Developments ... Figure 1. Conventional Virtual Memory (a) and Single-Level Storage (b ... HASH INDEX TABLE ...

Offed by 41 - Related articles - Web Search - All 2 versions

Distributed shared memory: A survey of issues and algorithms- *cms.edu [PS]

B Nitzberg, V Lo - Computer, 1991 - leeexplore,leee.org

... shared memory provides a virtual address space shared ... sharing and coherence through

virtual memory-management mechanisms ... Table 1 com- pares how design issues ...

Gited by 40% - Petiated articles - Web Search - All 6 versions

Apparatus for providing shared virtual memory among interconnected computer nodes with minimal

J Sandberg... - US Patent 5,592,625, 1997 - Google Patents

... packet and subsequently "decodes" the virtual address in order ... organization of the

page table associated with ... communications at a shared virtual memory level, ...

Ched by 26 - Pelated anicles - Web Search - All 2 versions

Mirage: A coherent distributed shared memory design

8 Fleisch, G Popek - Proceedings of the twelfth ACM symposium on Operating ..., 1989 - portal acm org

... can share locations at different virtual address ranges ... with the current

process's page table entries ... of these forms the process' virtual memory address space ...

Cred by 207 - Related articles - Web Search - All 8 versions

[Ps] *Checkpoint and migration of UNIX processes in the Condor distributed processing system

M Litzkow, T Tannenbaum, J Basney, M Livny - 1997 - cs.wisc.edu

... dynamic library is mapped into the same area of virtual memory where it ... segment in

the virtual address space. ... All of this information is kept in a table in the ...

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"virtual address" and "virtual memory" and table - Google Scholar

... increase the segment size of unix files in a page segmented virtual memory data processing system KE Duvail, AD Hooten, JC O'Oun III, TA Smith - US Patent 4.761,737, 1988 - Google Patents ... UNIX type Sys- tem Calls create and open files in virtual memory. ... 2,1988 sheet 4 of 10 4.761,737 VIRTUAL ADDRESS i (HASH) i HASH ANCHOR TABLE I INVERTED ...

<u>Gited by 26 - Pelisted articles - Web Search - All 3 versions</u>

Key authors: K Li - R Rashid - M Young - D Golub - A Tevanian

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